Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Zone Project Division

Name of Work :- Improvements of existing toilets and construction of Sump tank compound wall and grills in ward no 06 Byatarayanapura Sub Division

					Estimate Cost Rs.			15.00 Lakhs	
Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	KSRB 2-2.2: Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1 (b) / 2.3.5 (P.6/I.2.4 PW,P & IWTD, SOUTH ZONE - SR 2018-19)								
	Basic rate	449.00							
	Area weightage 6%	26.94							
	Sub total	475.94							
	Lead 10 km	**82.60**							
	Total	**558.54**							
	Sump Tank in Arogya Kendra	1	3.00	3.00	3.00	27.00			
	Sump Tank in DWCC	1	3.00	3.00	3.00	27.00			
	For Flag Hosting Pole	1	1.40	1.40	0.60	1.18			
	Sanitary Pit	1	2.00	2.00	5.00	20.00			
	Sanitary & Water Line	1	50.00	0.60	0.50	15.00			
	Drain infront of Arogya Kendra	1	17.00	0.90	0.80	12.24			
						102.42	**Cum**	**558.54**	**57,203.43**
2	KSRRB M300-53 : Construction of embankment with approved material gravel/ murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirment table 300-2 complete as per specifications (which includes cost of gravel/murrum,watering charges & compaction by vibrator roller) MORTH specification no.305 page no.147& item no.19.60) PWD SR 2018-19.								
	Basic rate	325.00							
	Area weightage 6%	19.50							
	Total	**344.50**							
		1	27.00	14.00	0.60	226.42			
	Deduction	1	-8.65	7.95	0.60	-41.26			
		1	-10.00	7.90	0.60	-47.40			
		1	-4.00	4.00	0.60	-9.60			
						128.16	**Cum**	**344.50**	**44,151.64**
3	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.13 / I. 4.3 PW, P & IWTD,SOUTH ZONE -SR 2018-19)								
	Basic rate	5102.00							
	Area weightage 6%	306.12							
	Total	**5408.12**							
	Sump Tank in Arogya Kendra	1	3.00	3.00	0.15	1.35			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Sump Tank in DWCC	1	3.00	3.00	0.15	1.35			
	For Flag Hosting Pole	1	1.40	1.40	0.15	0.29			
	Drain infront of Arogya Kendra	1	17.00	0.90	0.15	2.28			
						5.27	**Cum**	**5408.12**	**28,520.80**
4	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and footing , Pedestal staircase, lintels, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, bed blocks, anchor blocks, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 (P.13/I.4.10 PW, P & IWTD, SOUTH ZONE -SR 2018-19								
	Basic rate	5812.00							
	Area weightage 6%	348.72							
	Total	**6160.72**							
	Sump Tank in Arogya Kendra	2	3.00	3.00	0.15	2.70			
	Sump Tank in DWCC	2	3.00	3.00	0.15	2.70			
	Drain infront of Arogya Kendra								
	Bottom Slab	1	17.00	0.90	0.15	2.30			
	Drain walls	2	17.00	0.15	0.60	3.06			
						10.76	**Cum**	**6160.72**	**66,258.54**
5	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (I No-4.31,P No-15)								
	Basic rate	358.00							
	Area weightage 6%	21.48							
	Total	**379.48**							
	Sump Tank	2	3.00	3.00		18.00			
		8	3.00	0.15		3.60			
	Drain infront of Arogya Kendra	4	17.00	0.90		61.20			
						82.80	**Sqm**	**379.48**	**31,420.94**
6	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	71518.00							
	Area weightage 6%	4291.08							
	Total	**75809.08**							
	90Kg/Cum of Concrete		5.40	90.00		0.49			
	50Kg/Cum of Concrete		5.36	50.00		0.27			
						0.75	**Tn**	**75809.08**	**57,141.09**
7	ksrb 6-2: Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 5.0 newton per sqmm (table moulded) with cement mortar 1:6 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specification.Specification No. KSRB 6-1.3 (P.29 / I. 6.5 PW, P & IWTD, SOUTH ZONE -SR 2018-19)								

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Basic rate	6709.00							
	Area weightage 6%	402.54							
	Total	**7111.54**							
	Sump Tank	8	3.00	0.225	3.00	16.20			
		1	8.65	0.30	0.23	0.60			
	Parpet Wall	1	13.65	0.23	1.20	3.69			
	Flag Hosting Pole	1	1.40	1.40	0.60	1.18			
						21.66	**Cum**	**7111.54**	**154024.22**
8	KSRB- 15.3 Providing 20mm thick cement plaster in Single coat with cement mortot 1:4 to Stone masonary on concrete surface including rounding off corners where ever required smooth wendering, including providing and scaffolding and cost of material, labour, curing..etc complete as per specification.								
	Basic rate	271.00							
	Area weightage 6%	16.26							
	Total	**287.26**							
	Sump Tank	8	3.00		3.00	72.00			
		2	8.65		0.23	3.98			
	Parpet Wall	2	13.65		1.20	32.76			
	Flag Hosting Pole	4	1.40		0.60	3.36			
						112.10	**Sqm**	**287.26**	**32,201.56**
9	Supplying and fixing pressed steel door frames size 125x65 mm manufactured from 1.25mm thick carbon steel or imported steel strips with mitred joints of 900 for door openings and shutters made out of seasoned Honne wood, styles of 30 mm, thick with lock rail of 160 mm, width, top and side rails of 100 mm. width and bottom rails of 250 mm width and panel filling with 12mm thick particle board of exterior grade bonded with phenol formal dehide resin and the shutter shall be rot proof, vermin proof, heat resistant guaranteed against shrinkage, warpage and such other defects for a period of 3 years. This shall be as per approved drawings, specification and direction including cost of conveyance, manufacturing, painting with enamel paint 2 coats over primer coat, cost of labour for all items of work, machinery, equipment and all other incidental charges with all lead, lift, loading and unloading etc., complete. The Hollow portion of the frame to be filled with cement concrete 1:2:4. (P.42/I.7.26 PW, P & IWTD, SOUTH ZONE -SR 2016-17)								
	Basic rate	3500.00							
	Area weightage 6%	210.00							
	Total	**3710.00**							
	Anganvadi	1	2.10	0.90		1.89			
	Arogya Kendra	1	2.10	0.90		1.89			
	Toilets	5	2.10	0.90		9.45			
						13.23	**Sqm**	**3710.00**	**49,083.30**

No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
10	KSRB 7.9 :Supplying and fixing pressed steel window frame of size 100 x 50 mm manufactured from 1.25mm thick carbon steel or imported steel strips with neat mitred joints at 900 degree for window openigs and shall be suitable to fix M.S.grillsas per design and drawing using 12mm dia rodsat 100 center to center horizontally and two members of M.S flats of 6mm x 40mm size at 150mm apart, welded into a frame of 6mm x 40mm size M.S. Flats with 16mm size lugs, and 8no's of 100mm size hinges, 4nos of butt stay pinsand 4 nos. tower bolts and shutters half panelled and halif glazed with shutters made out of seasonal honne wood, styles of 30mm thick and 100mm width and rails of 30mm thick and 100width and using 4mm thick pin headed glass and panel, filling with12mm thick particle board of exterior grade bonded with phenol formal dehide resin and the shutter shall be rotproof vermin proof, heat resistant guaranteed against shrinkage, warp age and such other defects for a period of 3 years. This shall be as per approved drawing, specification and direction including cost of conveyance, manufacturing painting with 2 coats enamel paint over one coat of primer, cost of labour for all items of work, machinery, equipment and all other incidental charges with all lead, lift loading and unloading etc.,complete. The hollow portion of the frame to be filled with cement concrete 1:2:4 Specification No. KBS 7.27 (P.42/I.7.27 PW, P & IWTD,SOUTH ZONE -SR 2016-17)								
	Basic rate	3550.00							
	Area weightage 6%	213.00							
	Total	**3763.00**							
	Windows	6	1.50	1.30		11.70			
						11.70	**Sqm**	**3763.00**	**44,027.10**
11	KSRB 10-3 : Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications. (P.No. 66, I.No. 10.2 of PWD SR 2016-17)								
	Basic rate	904.00							
	Area weightage 6%	54.24							
	Total	**958.24**							
		1	7.90	5.10		40.29			
		1	10.00	2.65		26.50			
		1	8.65	7.90		68.34			
		1	4.8	5.10		24.48			
						159.61	**Sqm**	**958.24**	**152939.90**
12	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. (P. No. 117, I.No. 15.53.2 of SR 2016-17).								
	Basic rate	84.00							

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Area weightage 6%	5.04							
	Total	**89.04**							
	Anganvadi								
		1	35.00	3.80		133.00			
		1	7.90	5.10		40.29			
		1	10.00	2.65		26.50			
	Columns	2	3.00	1.80		10.80			
	Beam	1	4.30	0.40		1.72			
		1	2.00	0.40		0.80			
	Hospital								
		2	11.40	4.00		91.20			
		2	7.10	4.00		56.80			
		2	13.65	0.12		3.28			
		1	8.65	0.30		2.60			
		1	7.90	0.30		2.37			
		1	18.00	3.30		59.40			
						428.75	**Sqm**	**89.04**	**38,175.99**
13	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.								
	Basic rate	71.00							
	Area weightage 6%	4.26							
	Total	**75.26**							
		2	8.65	3.30		57.09			
		2	7.95	3.30		52.47			
		2	10.00	3.30		66.00			
		2	7.90	3.30		52.14			
		1	20.00	1.00		20.00			
	Celing	1	10.00	7.90		79.00			
		1	8.65	7.95		68.77			
		1	4.50	4.50		20.25			
						415.72	**Sqm**	**75.26**	**31,286.90**
14	KSRB 14.10-3: Providing flooring with 25mm to 40mm thick polished Cadapa slabs using cement mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, including cost of materials, labour, curing, polishing complete as per specifications. Specification No. (P. No. 117, I.No. 15.53.2 of SR 2016-17).								
	Basic rate	1106.00							
	Area weightage 6%	66.36							
	Total	**1172.36**							
		1	8.65	7.95		68.77			
		1	10.00	7.90		79.00			
		1	3.25	1.40		4.55			
		3	2.00	0.40		2.40			
						154.72	**Sqm**	**1172.36**	**181384.61**

No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
15	KSRB 11-7.1 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (P.77/I.11-12.7 PW, P & IWTD, SOUTH ZONE -SR 2016-17)								
	Basic rate	2967.00							
	Area weightage 6%	178.02							
	Total	**3145.02**							
			1.00			1.00			
						1.00	**Unit**	**3145.02**	**3,145.02**
16	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. (P.79/I-12.23 PW, P & IWTD, SOUTH ZONE - SR 2016-17)								
	Basic rate	3886.00							
	Area weightage 6%	233.16							
	Total	**4119.16**							
			1.00			1.00			
						1.00	**Unit**	**4119.16**	**4,119.16**
17	Providing and laying plat form using prepolished, water cut / gang saw 40mm thick telephonic Black Granite. laid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in joints including curing. (P.No. 108, I.No. 14.52 of PWD SR 2016-17)								
	Basic rate	3614.00							
	Area weightage 6%	216.84							
	Total	**3830.84**							
		1	10.00	0.60		6.00			
						6.00	**Sqm**	**3830.84**	**22,985.04**
18	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (Page No. 255/ Item No. 37.2)								
	Basic rate	715.00							
	Area weightage 6%	42.90							
	Total	**757.90**							
		40	2.40			96.00			
						96.00	**m**	**757.90**	**72,758.40**

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
19	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. (Page No. 255/ Item No. 37.4)								
	Basic rate	408.00							
	Area weightage 6%	24.48							
	Total	**432.48**							
		4	80.00			320.00			
						320.00	**m**	**432.48**	**138393.60**
20	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint								
	Basic rate	715.00							
	Area weightage 6%	42.90							
	Total	**757.90**							
		1	80.00		2.10	168.00			
						168.00	**Sqm**	**757.90**	**127327.20**
21	KSRB-4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement at 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.465cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.2/ PWD SR 2016-17								
	Basic rate	5194.00							
	Area weightage 6%	311.64							
	Total	**5505.64**							
	For poles	40	0.40	0.40	0.60	3.84			
						3.84	**Sqm**	**5505.64**	**21,141.66**
22	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2018-19								
	Basic rate	5659.00							
	Area weightage 6%	339.54							
	Total	**5998.54**							
		1	80.00	0.45	0.20	7.06			
						7.06	**Sqm**	**5998.54**	**42,325.70**

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
23	Supplying & Erection of RCC rings for well steining of .30 Mtr depth using M-20 grade concrete using clean graded granite or trap or jelly of approved quality 20mm and down size well compacted incluing centring from work and and plastering for both faces with CM 1:3 propotion as per design using 6.50mm M.S Coil at the rate of 10kgs/ring including cost of steel and fabrication , bailing out of water errection etc., (p-35. It :8.8b) PRED SR.2010-11								
	Basic rate	1200.00							
	Area weightage 3%	36.00							
	Total	**1236.00**							
	Sanitary Pit	1	2.00			2.00			
						2.00	**Nos**	**1236.00**	**2,472.00**
						Total Construction Cost			**1402487.79**
								1% PMC Charges	**14,024.88**
								12% GST	**82,693.80**
								Sub Total	**1499206.47**
								Miscellaneous & Rounding off	**793.53**
								GRAND TOTAL	**1500000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-17, PWD SR, Bangalore circle for year 2018-2019 and Data Rates

Assistant Engineer,
BBMP Bangalore

Asst. Exec. Engineer,
BBMP Bangalore

Executive Engineer,
BBMP Bangalore 15/7/19

Administrative Approval

Accorded For Rs15.00 lakhs only
Head of A/C P3298
CER NO :75 Dt:10.07.2019

TA CE (YNK)

Technical Sanction

Accorded For Rs.15.00 Lakhs
Head of A/C P-3298
CER NO :073 Dt:15/7/19

S.E. (Project) 15/7